CONSTRUCTION EQUIPMENT JMX 8-394539 VOLVO EC380E 314333 - REAR LEFT FINAL DRIVE

 Sample No:
 VCP449337

 Oil Type:
 GEAR OIL SAE 80W90

 Job No:
 8-394539

## SAMPLE INFORMATION

VOIN

Sample Number	-	VCP449337	VCP347155	VCP299346	
Sample Date		07 Mar 2024	12 Aug 2022	27 Jul 2021	
Machine Hours		4157	2084	503	
Oil Hours		0	0	0	
Oil Changed		Changed	Changed	Changed	
Sample Status		SEVERE	ABNORMAL	NORMAL	
OIL COND	ITION				
Visc @ 40°C	cSt	<b>5</b> 5.1	60.8	173	
CONTAMI	NATION				
Water	%	NEG	NEG	NEG	
Silicon	ppm	<b>A</b> 1280	<b>6</b> 97	10	
Sodium	ppm	<b>4</b> 9	38	2	
Potassium	ppm	<b>7</b> 9	46	2	
WEAR ME	TALS				
PQ		<u> </u>	754		
Iron	ppm	<b>5771</b>	▲ 3082	178	
Copper	ppm	<b>12</b>	5	<b></b> <1	
Lead	ppm	∎1	<b></b> <1	0	
Tin	ppm	0	0	0	
Aluminum	ppm	0 255	133	2	
Chromium	ppm	<b>▲</b> 52	25	4	
Molybdenum	ppm	5	2	□ <1	
Nickel	ppm	3	0	<1	
Titanium	ppm	<b>A</b> 15	10	<1	
Silver	ppm	<1	3	0	
Manganese	ppm	65	22	4	
Vanadium	ppm	0	<1	0	
	2		_		_
Calcium	ppm	562	480	9	

Calcium	ppm	562	480	9	
Magnesium	ppm	105	39	3	
Zinc	ppm	<b>15</b>	33	12	
Phosphorus	ppm	2351	1873	455	
Barium	ppm	0	3	6	
Boron	ppm	209	138	2	



STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD MISSISSAUGA, ON CA L4W 4L4 Contact: Janice Cripps jcripps@strongco.com T: (905)565-3876 F: (905)670-2338

## Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for topup/fill. We recommend an early resample to monitor this condition.Chromium and iron ppm levels are severe. PQ levels are abnormal. Titanium ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within SAE 80 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:	SHEMIS		
Unique No:	5746693		
Signed:	Kevin Marson		
Report Date:	13 Mar 2024		

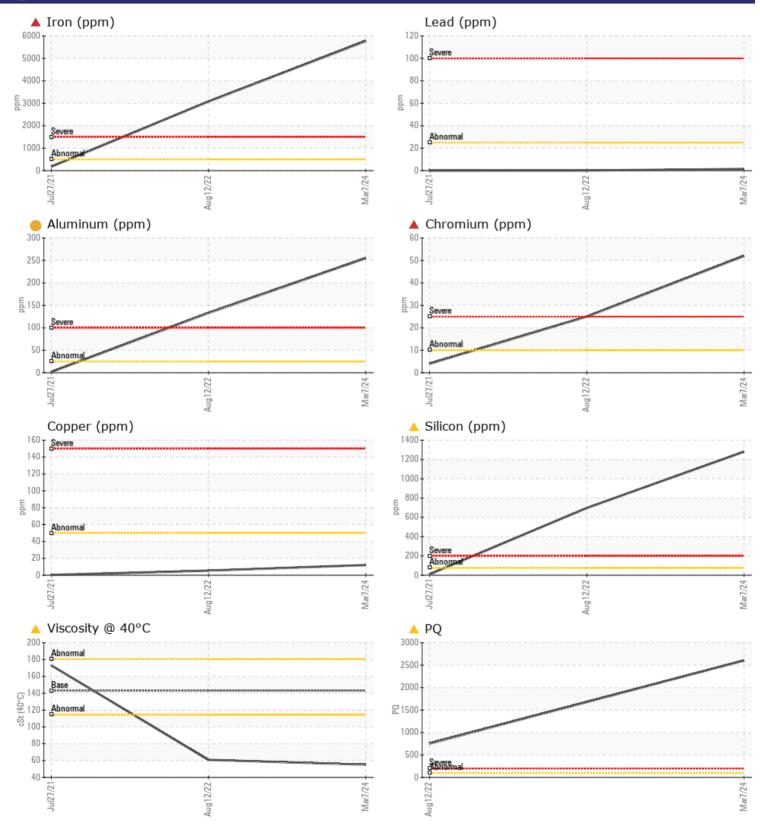
Contact/Location: Janice Cripps - SHEMIS

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Report Id: SHEMIS [WCAMIS] 02621574 (Generated: 03/13/2024 11:04:02) Rev: 1

Contact/Location: Janice Cripps - SHEMIS